

THE 4★ PUZZLER

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... AND MORE!

Homo-Antonyms A Paradox of Kindred Opposites

DMITRI A. BORGMANN

One naturally expects words opposite in meaning to *look* opposite—say, by using the same set of vowels but in reverse order. A very few pairs of opposites (SELDOM—OFTEN, NARROW—BROAD, MISER—SPENDTHRIFT) actually oblige. Many more of them, however, choose to defy the canons of logic and decency by using exactly the same vowels in exactly the *same* order. Let's examine the paradox posed by these deviants.

To begin with, there are dozens of one-vowel words with opposites using the same one vowel, when they had five others from which to choose. Just a few specimens:

HE—SHE
FROM—TO
THICK—THIN
SHORT—LONG
PUSH—PULL
ON—OFF
STOP—GO
HIT—MISS
PRO—CON
HOT—COLD
STAND—FALL
WON—LOST
DIM—BRIGHT

Two-vowel opposites are more abundant but also more interesting, for duplicating two vowels in correct order requires more talent. Scores of examples follow. In these (and in subsequent multivowel) examples, I have adopted a flexible definition of the underlying concept: included are many "absolute" opposites, some word pairs opposite only in specific senses or in particular contexts, and a few sharply contrasting correlative terms. The letter Y is treated either as a vowel or

as a consonant, depending on its pronunciation in the word. Behold:

CHANCE—FATE
LIVE—DIE
EXIST—PERISH
CRADLE—GRAVE
AY—NAY
CENTER—EDGE
SECONDS—EONS
INCHES—MILES
EVIL—BENIGN
BEGIN—DESIST
LABOR—GAMBOL
TOIL—FROLIC
MURMUR—HUBBUB
GOOD—POOR
PLACID—FRANTIC
STATIC—CHANGING
FROZEN—MOLTEN
FRIGID—SIZZLING
HASTEN—DAWDLE
COMING—GOING
WAXING—WANING
LARGEST—SMALLEST
GLOBAL—LOCAL
ATE—STARVED or FASTED
SOBER—STONED
SANE—CRAZED or ADDLED
CUNNING—STUPID
WISE—MINDLESS
SOLVENT—BROKE
WHOLE—BROKEN
GATHER—SCATTER
LAVISH—SPARING
YOUTH—GROWNUP
OLDEN—MODERN
TEACH—LEARN
DREAMT—REAL
OPEN—CLOSE(D)
SELECT—REJECT
CHEAP—DEAR
DEBIT—CREDIT
HIRE—FIRE
CONSENT—OBJECT
RULER—SUBJECT
MASTER—SLAVE
ENMESH—FREE
BRAVE—CRAVEN

URBAN—RURAL
LEVEL—STEEP

You would assume that duplicating a sequence of three vowels is so difficult that only an occasional instance can be found. Yet, here are 20 pairs of opposites exhibiting precisely that peculiarity—and they consist exclusively of common English words:

NATIVE—ALIEN
DOMESTIC—FOREIGN
OCCIDENT—ORIENT
PASSIVE—ACTIVE
QUIET—UNSILENT
ASLEEP—ALERTED
ALARMED—PLACATED
EITHER—NEITHER
MATERNAL—PATERNAL
JOCOSE—MOROSE
EXPIRE—REVIVE
PRAISED—MALIGNED
POLITE—HOSTILE
UNITED—UNTIED
OFFICER—SOLDIER
PERMITTED—DENIED
PRODUCE—CONSUME
FANCIER—PLAINER
HE-GOAT—SHE-GOAT
EXPOSE—RE-COVER

Locating four-vowel specimens of antonymic heterodoxy is considerably more of a challenge, but a preliminary survey has found 12 pairs comprised mostly of familiar words:

OCCIDENTAL—ORIENTAL
QUALITY—QUANTITY
INTELLIGENT—IMBECILE
DESIRABLE—DESPICABLE
PRODUCTION—CONSUMPTION
COUNTERPUSH—COUNTERPULL
VERACITY—MENDACITY
MILITIA—CIVILIANS
COLDHEARTED—HOTHEARTED
STALACTITE—STALAGMITE
MATERNITY—PATERNITY
ENDOGAMY—EXOGRAMY

continued on page 4

For Starters

Those of you who subscribe to our parent magazine, *Games*, have read the announcement that it will assume monthly publication with the September issue, in effect doubling its output of puzzles and games. Since the current editors of the *Four-Star* are also editors for *Games*, you may have wondered how it's humanly possible for the same people to produce so much work and maintain the quality you expect.

The answer, of course, is that it is not possible. So we have decided, with a little sorrow but a great deal of assuredness, to pass the reins of *The Four-Star* Puzzler next month to two capable new editors—Emily Cox and Henry Rathvon.

These names may be familiar because Emily and Henry have been *Four-Star* contributors since way back in Issue 1. They were our "Who's Who" in puzzle-dom last June. And their cryptic puzzles appear regularly in *The Atlantic*, *The Progressive*, and *Games*—all of which, thankfully, they plan to continue. We think you'll like the new touch they add to the *Four-Star*, while they maintain—and improve—the quality.

Meanwhile, our full-time work at *Games* won't impede our frequent contributions to the magazine. So this isn't "adieu" so much as "au revoir—see you again soon."

Re: That Grave Error

Alan Batterman of Spring Valley, NY, has sent an interesting alternative answer to the January gravestone puzzle (#53), in which a "widow" died 11 years before her husband. "Mrs. Fountain was indeed Edward Fountain's widow," he writes. "The fact that her name appeared below his with the inscription 'also of' indicates that she died after he did. And if the year stated were correct, she would have been 27 years older than her husband, very unlikely in 19th century England. Therefore, I conclude, the actual date on the gravestone was 1842. The illustration shows how wear and erosion made it look like 1812 to the reader."

1842

Those \$500 of Games

Marilyn Simons of Jaffrey, NH, winner of last fall's rebus cartoon championship, writes that she is donating much of her first prize (\$500 of games) to the local library where she works. Concerning the contest rebuses she says, "I couldn't solve the darn things at all when you first put them in, but I gradually developed the knack. Interestingly, I find I get the

answer either immediately or only after a long struggle." She adds, "None of my friends laugh any more when I mention contests!"

Naming a Word Search Magazine

So many word search magazines are on the newsstands these days that the biggest problem of starting a new one must be finding a new name. Our own research on the subject has found the following titles already in use: *Circle-A-Word*, *Complete-A-Word*, *Find-A-Word*, *Hunt-A-Word*, *Loop-A-Word*, *Make-A-Word*, *Ring-A-Word*, *Search-A-Word*, *Seek-A-Word*, and *Spot-A-Word*. Also taken are: *Word Probe*, *Probe for Words*, *Word Quest*, *Quest for Words*, *Word Scan*, *Scan and Find*, *Find and Circle*, *Seek and Circle*, *Hide and Seek*, *Words and Circles*, *Loops and Lines*, and *Super Fantastic Search and Find*. Sources report that *Circumnavigate-A-Word* is still available. —W.S.

Contest Contest Competition

Grand Prize: Three-year subscription to *Contest News-Letter* (Fernandina Beach, Fla.)

5 Runner-Up Prizes: Complete set of puzzles from the 5th Annual American Crossword Puzzle Tournament

He who hesitates is not necessarily lost. In fact, a stammering statement may actually make you a winner. The object of this contest is to compose a sentence of 25 words or less in which at least five words are repeated. Each pair of repeated words must be next to each other and must be used in different senses. The spelling of both should be the same, but the pronunciation and capitalization can be different.

For example:

John, as is his wont, won't miss Miss Dean, dean of the faculty, but Will will and May may.

Should the seal seal the deal, lest the weasel weasel out, the chicken chicken out, the duck duck out, and the cow cow the hippopotamus?

"It's about time," *Time* editorialized, "that the Miami Herald herald *Games*' games, which seldom drive people mad—*Mad* editors agree; so do the *People* people."

Send your entry on a postcard or back of an envelope to "Contest Contest," *The Four-Star Puzzler*, 515 Madison Avenue, New York, NY 10022. Entries will be judged on originality, cleverness, and—repetitiveness. The deadline is March 31, 1982. Winners will be presented in the June issue.

—LINDA BOSSON

Rebus Cartoons

A Four-Star Contest

Grand Prize: "Cube Twister" and two other giant jigsaw puzzles from Nordevco

10 Runner-Up Prizes: *Van Gogh*, from "The Great Masters of Art" series

Puzzles This Issue: Nos. 1, 6, 11, 12, 13, 14, 29, 30, 35, and 57

How to Solve: The caption above each cartoon gives the category and number of letters in the answer, which is hidden phonetically in the cartoon in one or more of the following ways:

1. Words or hyphenated syllables actually spoken by the cartoon characters or appearing in the cartoon;
2. Synonyms of words spoken or appearing in the cartoon;
3. Names of prominent objects in the picture;
4. Isolated letters in the picture;
5. Words implied by the action or subject of the scene.

For example, the answer to the cartoon at left is Mesa Verde, sounded out by the pictured MACE, spoken OF, implied HEIR, and written D (MACE-OF-HEIR-D).

How to Enter: On a postcard or back of an envelope, print the answers with phonetic explanations to as many January rebuses as you can solve. Send to "Rebus Puzzles," *The Four-Star Puzzler*, 515 Madison Avenue, New York, NY 10022. Entries must be received by March 31, 1982.

Winning: The winner will be the reader who correctly solves the most cartoons. Those who submit the ten next best entries will be runners-up. In case of ties, winners will be chosen by random drawing. Answers and winners' names will appear in the June issue.

1 Book and Movie: 3, 7, 2, 6, 4



2 Winging It

LOIS SIDWAY

ACROSS

- 1 Single man, for short
5 Ladd role in 1953
10 Szechuan sauce
14 Partner in crime
15 Live it up
16 Haberdasher's merchandise
17 Fly
20 Cheek
21 Mubarak's place
22 Bullring bravo
23 Princess Di's address
25 Warnings
29 Melodrama meanie
32 Misadventurous sheriff
33 Man's man
34 Morse's E
36 Flew
40 Abby's sib
41 Retailor
42 First name in espionage

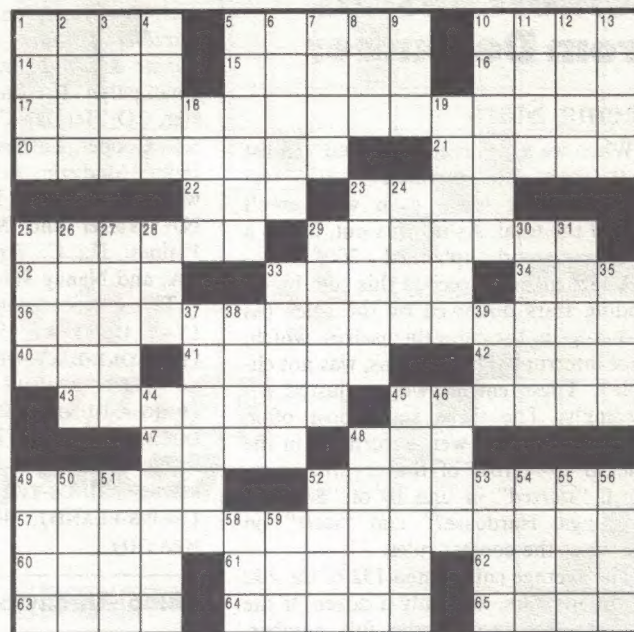
- 43 Caulking compounds

- 45 Mug
47 Gin source
48 Linksman Hinkle
49 Trunk
52 Empty
57 Flown
60 _____ instant
61 Poet Marianne
62 "Zounds!"
63 *Body Language* author
64 Kind of house or plant
65 Input

DOWN

- 1 Bangkok bill
2 Safe from the storm
3 Happiness exemplar
4 Evil, as personified by RLS
5 Loot
6 Poker Flat founder

- 7 Chichi
8 Top degree
9 Uvea milieu
10 Prynne's "A," for example
11 Unctuous
12 Boxer's outcry
13 Tchr.'s aide
18 Subtractor's word
19 Vitality
23 Bannister, e.g.
24 Wares from Milwaukee
25 Neighbor of B.C.
26 Simple folk
27 "... poor dog ____"
28 Korean soldier
29 Wind indicators
30 Fancies
31 Nick of *The Deep*
33 "A ____ santé!"
35 Pre-1917 despot
37 Soap ingredient
38 Corn derivative
39 Pair in 23-Across
44 Amen



- 45 Legitimate
46 He wrote *Bus Stop*
48 Transatlantic quart
49 Worker's pet initials

- 50 Charlie's widow
51 Nucleic acids
52 Arabian craft
53 Ended up in the minus column

- 54 Latvian seaport
55 Summer nuisance
56 Snorri Sturluson work
58 Rascal
59 Extremely

3 A Bit Spooky

JACK LUZZATTO

ACROSS

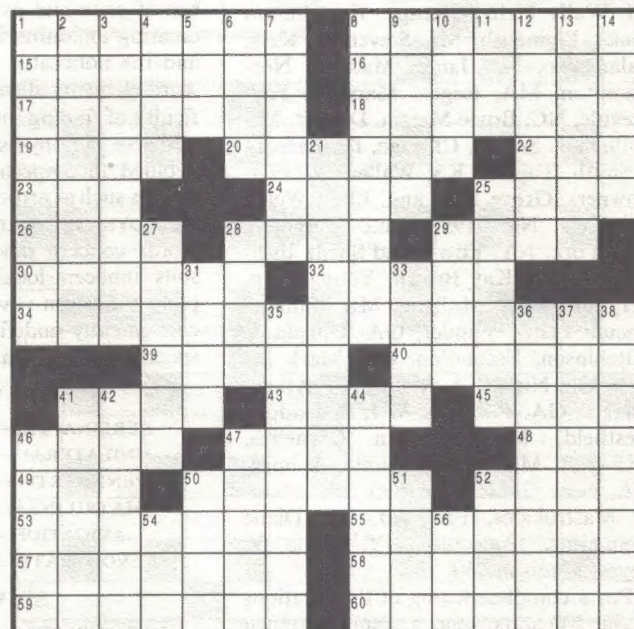
- 1 Tell what comes next
8 Blood-chillingly outre
15 Witchcraft, Pennsylvania Dutch-style
16 No match for the pros
17 Long-legged shorebirds
18 Puff stuff?
19 New Deal deal: Abbr.
20 No recidivists, they
22 Comments to the doctor
23 Private eye
24 Czech name for the Eger River
25 Swiss surrealist
26 "Men will confess to treason, murder, ... or ____": F.M. Colby
28 Bingo number
29 Flawless masterpieces

- 30 Magic word or a magic street
32 Imprecise
34 Literary genius, formally
39 Slipcover for a book
40 Strike _____ (spur to action)
41 *The Laughing Cavalier* painter
43 Hastened
45 Game animal
46 Somewhat wan
47 Forecaster
48 Threefold indicator
49 Make a choice
50 Rescued from danger
52 Frugal to a fault
53 Fixture of a haunted house
55 Sound-off beat
57 Thrillers seen in installments
58 Believers in the Immortals

- 59 Uplift
60 Sneaky characteristic

DOWN

- 1 Figment of one's imagination
2 Critic at work
3 Deprive of possession
4 Ten: Prefix
5 Choleric feeling
6 Whale: Prefix
7 "____ so deep as a well": Shak.
8 On the female side
9 Moon hitting the eye, e.g.
10 Private conveyances
11 One-time connection
12 Relax
13 Pleated fabrics for trimming
14 Ragged-edged
21 *Gigi* star



- 25 Lamented grievously
27 Stinging fellow
28 Withstand
29 Turkeylike bird
31 Officers of mil. govt.
33 Quite pleased about it

- 35 Practice
36 Game of make-believe
37 Hams it up
38 Weird feeling
41 Occur
42 Acting in sequence, old-style

- 44 Builds
46 Pack of lawmen
47 Enchantment
50 Gore
51 Thriller author Roald
52 ____ *Herr*
54 Labor org.
56 Actress Susan

Contest Results from December

Seeing Stars

When we asked readers to find and list all the stars, either pictured or printed, in our December issue, even we weren't sure of the total. As it turns out, it was a nice, even—and unplanned—200.

A few entries exceeded this sum by including stars outlawed by the rules (as "S-T-A-R" in the rules themselves, which, since interrupted by hyphens, was not eligible). These entries were adjusted accordingly. The three stars most often omitted from lists were "starting" in the clue to 29-Across of the cryptic crossword, "started" in line 19 of "Season's Greetings, Hardcase?" and "start" on line 43 of the contest rules.

The average entry listed 192 of the 200 legitimate stars, and only a dozen of the 138 entrants spotted the full number. From this observant group, Richard L. Dewey of Akron, OH, was randomly chosen as the grand prize winner. He'll receive the Celestron C-90 Spotting Scope, valued at \$395, enabling him to do some more traditional stargazing.

The 25 runners-up, each receiving a copy of *Connie's Cryptos* by Connie Gordon Wiener, are (by number of stars found): **200:** Thomas R. Alfes, Warren, MI; Wally Firlit, Chicago, IL; Thomas Hinks, Plymouth, MI; Steven C. Kela, Kalamazoo, MI; James Madden, Northampton, MA; Reggie Marshall, Fayetteville, NC; Bruce Martin, Detroit, MI; William T. Simms, Chicago, IL; Barbara J. Smith, Topeka, KS; Wallace Weaver, Downers Grove, IL; and Elias Weiss, Brooklyn, NY. **199:** Santo Berenato, New York, NY; Edwin and Sheila Bishop and Nora Kay Brown, Youngstown, OH; Julia Bliss, Midland, MI; Maureen Slocum Fehrs, Winder, GA; Donald S. Hutchinson, Escondido, CA; Mark Joseph, Van Nuys, CA; Mary W. Rayfield, Atlanta, GA. **198:** Mrs. W.J. Bodendorf, Westfield, MA; Carolyn Cornelius, Cheverly, MD; Len Elliott, Auburn, WA; Peter Gordon, Teaneck, NJ; Meredy Mastrokalos, Freehold, NJ; Diane Meinardus, Copiague, NY; Elena V. Reyes, Madison, WI.

For a complete listing of the locations of the 200 stars, send a stamped return envelope to "Seeing Stars," *The Four-Star Puzzler*, 515 Madison Avenue, New York, NY 10022.

Rebus Cartoons

The December rebus contest drew 419 entries from readers, of which 366 were fully correct. From these, John Weiner of New York, NY, was randomly chosen as winner of the grand prize, Ideal's "Elec-

tronic Detective" game. Runners-up, each receiving the crossword calendar *Puzzling Through 1982 with Margaret Farrar & Company*, are: Kathi Borden, Champaign, IL; Jim Calhoun, Westminster, CO; Herman Charlip, Baldwin, NY; S.E. Cooper, East Amherst, NY; George Falor, Madison, WI; Joy Gerity, Lakewood, CO; Arlene Hartman, Ringwood, NJ; Walter and Marla Smulson, Des Plaines, IL; C. Stroup, Harbor Creek, PA; and Nancy Wirs, Key Largo, FL.

The correct answers: 4. Tab Hunter (TAB HUNTER); 5. Lake Okeechobee (LEI-COKE-EACH-OH-BEE); 6. Lee Trevino (LETE-RAVINE-OH); 7. *Brigadoon* (BRIG-A-DUNE); 32. Eddie Cantor (EH-DECANTER); 33. Tel Aviv (TELL OF EVE); 35. Bruce Springsteen (BREW-SSSS-SPRINGS-TEEN); 39. New Zealand (NEWS-ELAND); 40. Hirohito (HERO-HEAT-O).

Homo-Antonyms, cont'd

Just as mountaineers are impelled to try scaling the highest peaks, simply because they are there, word connoisseurs are driven by an indomitable spirit to attempt ever greater feats, searching for longer and longer examples of whatever verbal oddity happens to interest them at a particular time. It is in that tradition that I offer you the following pairs of antonyms. The gradually decreasing number of examples as we advance, the increasing unfamiliarity of the words used, and the noticeable recurrence of certain word elements all reflect the extreme difficulty of finding multivowel examples of perverse antonyms. Even so, I have avoided incomprehensibly technical examples such as ENDODYNAMOMORPHIC—ECTODYNAMOMORPHIC. These two words concern developing or transition soils: innocent-looking terms used to explain the seven-vowel monsters, but left conveniently undefined by the dictionaries employing them.

Five Vowels

HEREINAFTER—THEREINAFTER
UNILATERAL—MULTILATERAL
OPENHEARTED—CLOSEHEARTED
MATRILINEAL—PATRILINEAL
AVIGATION—NAVIGATION
LEVOGYRATE—DEXTROGYRATE

Six Vowels

HEREINBEFORE—THEREINBEFORE
UNINUCLEATE—MULTINUCLEATE
OVERPRODUCTION—OVERCONSUMPTION
URBANIZATION—RURALIZATION
MATERNALITIES—PATERNALITIES
LEVOROTATORY—DEXTROROTATORY

Seven Vowels

QUALITATIVELY—QUANTITATIVELY
DEVITALIZATION—REVITALIZATION
OCCIDENTALITIES—ORIENTALITIES

UNIDIMENSIONAL—MULTIDIMENSIONAL
MATRILOCALITIES—PATRILOCALITIES

Eight Vowels

OCCIDENTALIZATION—
ORIENTALIZATION
DEMINERALIZATION—
REMINEALIZATION

Nine Vowels

It is at this level that logic and analogy come into play. One dictionary lists the adjectives UNIMOLECULAR and MULTIMOLECULAR, and the noun UNIMOLECULARITY; the verbs DEMATERIALIZE and REMATERIALIZE, and the noun DEMATERIALIZATION. If omission of the corresponding second nouns, MULTIMOLECULARITY and REMATERIALIZATION, is only an oversight, as it is safe to assume that it is, then it becomes possible to produce two nine-vowel examples:

DEMATERIALIZATION—
REMATERIALIZATION
UNIMOLECULARITIES—
MULTIMOLECULARITIES

You may wish to locate additional nine-vowel specimens, sanctioned explicitly by dictionaries. If that problem seems too formidable, look for shorter, more common examples. Should findings warrant, a follow-up report will appear in a future issue.

Dmitri Borgmann is the author of Language on Vacation and Beyond Language, as well as founding editor of Word Ways, the Journal of Recreational Linguistics.

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4 Finis

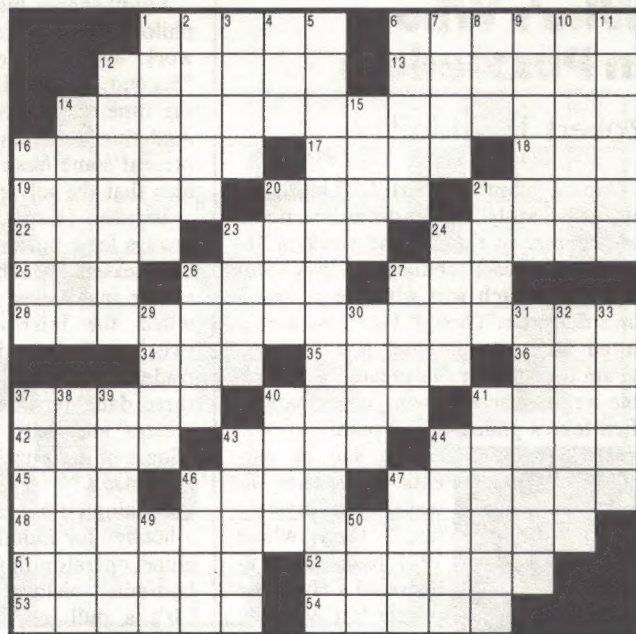
HENRY HOOK

ACROSS

- 1 Perfect thing to say at the card table?
6 Cochise or Geronimo
12 What's black and white and Red all over?
13 Mandrill sister?
14 Go on for the last time
16 *Superman* director
17 London's Louvre
18 Roast pig adjunct
19 Mnemonic procedures
20 Cap—
21 "Smoke Gets in Your Eyes" composer
22 "— it my way"
23 Butcher's complaint?
24 McKuen's specialty
25 Athletic supporter
- 26 *Mary, Mary* playwright
27 *Raison d'être* for "sudden death"
28 Debarkation point
34 Shirt shape
35 Metallurgists' concerns
36 — *Kapital*
37 Daphnis' dear
40 Intended victim
41 Harry's lady
42 Check, or a homophone for a kind of check
43 1980 hit movie
44 Play the coquette
45 Job-application datum
46 Mona's other name
47 Swindler
48 Says goodbye
51 Face boldly
52 Share the onus of an IOU
53 Coarse, as humor
54 Corroded

DOWN

- 1 Decreased?
2 Hamlet's cronies
3 Incessantly
4 Job-seeker's perusals
5 No-more-encores time
6 Lessen
7 Sheet behind a shutter
8 Seamen: Abbr.
9 Bumpo's creator
10 Trick takers
11 Leader of the track
12 Of bridges
14 Camptown refrain
15 Urchin
16 Snow bank
20 Prefix for sol or naut
21 Naval base?
23 Eliot's Adam
24 Rivals
26 Footballer's sore spot
27 The bad guys
- 29 "... playing fields of —"
30 Surgery patient
31 Brain trust members
32 Resort city of the Bahamas
33 Railway center of Germany
37 A film Tarzan
38 Flight from danger
39 Munich music
40 El —, TX
41 Mild
43 Grant's bill
- 44 "We who are about —"
46 Cilium
47 Throw à la Izaak Walton
49 Won at musical chairs
50 — good deed



5 Cryptic Crossword

E. R. GALLI

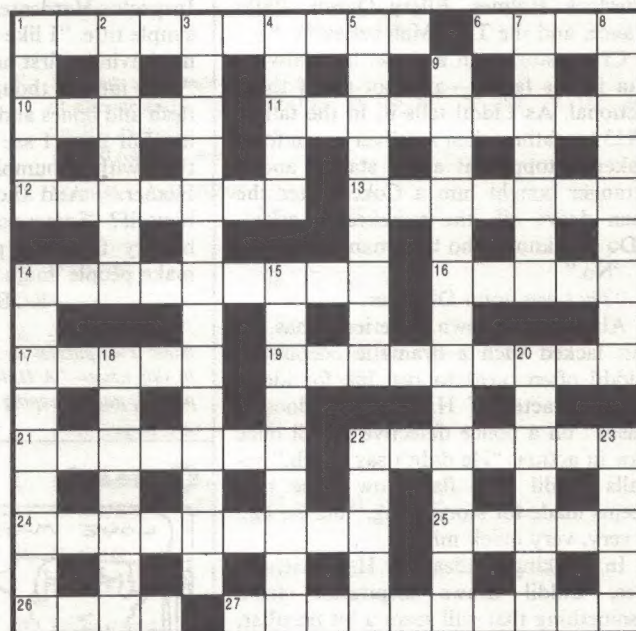
Each cryptic clue contains two indications of its answer—a direct or indirect definition, and some sort of wordplay on it (anagram, pun, or reversal, etc.). You'll know when you have an answer because every word in the clue will have a role in leading you to it. Explanations will appear with answers next month.

ACROSS

- 1 Engineer is pampered in fantastic stories (4,6)
6 Shakespeare, in retrospect, is dull (4)
10 I am about to cry in surprise from a catty remark (5)
11 Lack of a system in opposition to a possible source of nuclear energy (9)
12 Resort is place having an unusual quality (7)
13 Kiss her awkwardly, producing screams (7)
14 Broken-down sauce cart for lobsters and crabs (9)
16 Next, raise stocking to boot (5)
17 No bishop leaves without two-thirds of the peerage (5)
19 Car hitched up to be run by a robot (9)
- 21 Cast is heard from beginning to end (7)
22 Symbol of limpness is husband in drag (7)
24 Plan makes indecent impression (9)
25 Call for ratification at mid-night (5)
26 Simple section of the asylum (4)
27 Leave, for each girl, something with a small charge (10)

DOWN

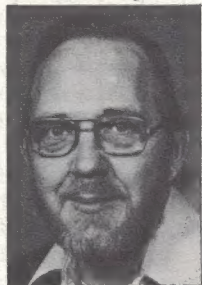
- 1 Questions of ladies' shoes (5)
2 Gold plate is first to reach stability (7)
3 Feathers thrown out—it's sad (4,2,3,5)
4 Slippery character has 90 beat (5)
5 Net encloses, in one-foot hole in the ground (4,5)
- 7 Clothing tailors train me (7)
8 Where the park musicians play a bit of Bach and get up (9)
9 Officers—two bit specialists, maybe? (14)
14 Prisoners indefinitely put off law officer (9)
15 Enter a disreputable bar without paying and go quickly to the bottom (5-4)
18 Bays said to be for sailing ships (7)
20 Actionable offense with regard to one kind of ice cream (7)
22 500 at university married; it's a fact (5)
23 Gather information from grand list (5)



Who's Who in Puzzledom

Robert L. Liddil

Once a month Robert L. Liddil, his last name aptly a palindrome, writes a new chapter in the life and work of Inspector Hardcase, challenging *Four-Star* readers to match wits with the perspicacious detective. Though Hardcase is presented as a no-nonsense, just-the-facts-ma'am investigator, his creator is an amiable writer whose flowing conversations often take a philosophical path.



The son of parents who "have always been mystery fans" (and whose 1927 photograph illustrated a Hardcase puzzle last March), Liddil, 49, is a native Hoosier who lives in the small town of Sheridan, north of Indianapolis. Writing Hardcase puzzles was a natural outgrowth of his childhood interests. "When I was 13 and in bed with rheumatic fever," Liddil says, "I must have read about 200 mysteries that my parents brought me, including Sherlock Holmes, Ellery Queen, Philo Vance, and the Thin Man series."

Crime stories, in a sense, have always run in the family—and not all of them fictional. As Liddil tells it, in the fall of 1933 his father, then a delivery man for a bakery, stopped at a gas station and a stranger bought him a Coke. After the man drove off, the storekeeper asked, "Do you know who that man was?"

"No."

"That was John Dillinger."

Although his own experience has, so far, lacked such a dramatic encounter, Liddil often turns to real life for ideas. The character of Hardcase is "loosely based" on a police detective Liddil once saw in action. "He didn't say much," recalls Liddil in a flat, slow voice that seems made for storytelling, "but he had a very, very quick mind."

In thinking of ideas for Hardcase stories, Liddil draws inspiration from "something that will seem a bit peculiar, be it at work or on the street." His oldest daughter's Volkswagen, for example, inspired him to write a mystery that turned on the fact that the Beetle is air-cooled and needs no water. Liddil defines such a fact as a "trigger clue" which, once discovered, will point the reader to the solution. Writing the 400-word stories is usually a "working backwards process," for he builds the dialogue, description, and setting around the clues.

Liddil shapes his creations by his own philosophy of puzzlemaking. "First, my work should entertain," he observes. "Second, it should make the solver take the time to read carefully and to think. And third, whenever possible, it should present some fresh bit of information or idea that the solver can take away."

Besides Hardcase mysteries, Liddil creates logic puzzles, word searches, and brainteasers, which he sells to national puzzle magazines. His logic puzzles are noted for interesting settings, clever twists, and sheer difficulty. Liddil often trades these with the youngest of his three daughters, 17-year-old Ruth, who creates and sells puzzles of her own. "Some of her puzzles," he proudly adds, "are mean."

Making puzzles remains "pretty much a hobby" for Liddil, who works as a machine operator during the day, making hydraulic pistons for heavy industry. "It's a dull job," he candidly admits, "but it gives me freedom to write." Previously, Liddil taught music for 20 years in high schools after studying at Indiana State University. Music remains one of his leisure activities, along with bowling, reading (he enjoys comparing seven different editions of the Bible), and attending writing workshops, where he reads drafts of Hardcase mysteries.

Into his second year of detective work, Inspector Hardcase is still known by that simple title. "I like the peculiarity of him not having a first name," Liddil explains. "I do intend, though, to give him more flesh and bones and develop his personality. For now, I see him as a Sherlockian type with a bumbling assistant, Jephro Homer." And how does Liddil see himself? "Someone," he replies, "who is hungry to make people think, and to make people laugh."

—ROBERT D. SPURRIER

Note: Two puzzles by Robert L. Liddil appear in this issue—"A Hairy Problem, Hardcase?," page 8, and "Keeping Track" (logic), page 12.

6 Tree: 8



7 Can You Answer This?

You may not know the answers to all of these questions, but think of the interesting additions to your knowledge!

Answers, page 14

1. In 1925, a large crowd filled a hall in New York City's Hotel Roosevelt and watched Yale defeat Harvard in the finals of the first intercollegiate . . . what?

2. Presidents Millard Fillmore, Benjamin Harrison, Theodore Roosevelt, Ronald Reagan, John Tyler, Woodrow Wilson, and James Buchanan had 12 among them. Twelve what?

3. Dogs are canine; cats are feline. What creatures are respectively anserine, colubrine, strigine?

4. What was the world's first city to boast a population of over one million?

5. Which national anthem would take the longest to sing—Greece's, Japan's, or Qatar's?

6. It may sound quite odd, but Sen. Barry Goldwater once said that "peanut butter is a darn good . . ." what—salad dressing, stain remover, or shaving cream?

7. What was unusual about Broker's Tip, the winning horse in the 1933 Kentucky Derby?

8. What type of sports fan might be familiar with a Zamboni machine?

9. On October, 1936, a play by Sinclair Lewis opened simultaneously in 21 theaters located in 18 cities in 14 different states. What was its rather inappropriate title?

10. We've all heard of a bicycle built for two. But what is the largest number of passengers for whom a bicycle has been built—8, 20, or 36?

11. Is there a McDonald's restaurant in Hamburg, Germany?

12. There is a unique tree at an oasis in Africa's Tenere Desert. What makes it unique?

13. What does a brilliologist study?

14. The first pay telephone was installed in Hartford, Conn., in 1889. How much did a call cost?

15. The largest arena of its kind is in Tokyo, and can accommodate 504 simultaneous games. What is played there?

16. In 1930, two men drove cross-country and back in a Model A Ford without stopping the engine once, covering over 7,000 miles in 42 days. As if that weren't enough, they drove _____.

17. More cheese is made in the U.S. than in any other country. Where is more cheese eaten than in any other country?

18. In 1881, Theophilus Van Kannel invented something that marked a turning point in his otherwise unillustrious career. What was it?

8 Acrostic Puzzle

CHARLES A. DUERR

1E	2B	3K	4I	5V	6R	7P	8G	9F	10Q	11J	12N	13C		14K	15Y	16E	17A	18Z	19V	20P		21L	22D
23S	24R	25V	26H		27J	28W	29X	30K		31Q	32I	33E	34M	35U	36T	37O		38B	39J		40A	41C	42E
43N	44P		45S	46F	47W	48X	49K		50L	51Q	52E		53V	54G	55X	56Y	57B	58M	59D		60K	61Z	
62J	63B	64H		65U	66N	67P	68V	69I	70E		71W	72M		73Q	74Y		75F	76J	77K	78R	79G	80B	
81E		82P	83N	84D		85X	86L		87E	88O	89K	90J	91V	92Z	93W		94E	95M	96T	97I	98A		99S
100B	101G		102E	103X	104U	105H	106O	107P		108Y	109K		110D	111R	112N		113E		114V	115K	116Q		117H
118T	119Y	120M		121Z	122J	123X	124N		125F	126G	127B	128K		129L	130T	131E	132A	133P	134O		135W	136M	137C
138Y	139J		140G	141J	142U		143E	144F	145H	146Z	147Q		148X	149V		150E	151R		152U	153I	154W	155J	156P
157E		158O	159D		160C	161G	162Q	163K		164E	165B	166M	167F	168V	169Y	170G	171X		172P	173L	174N		175A
176B	177M	178T	179W	180F	181E	182K		183S	184C	185Z	186Q		187D	188Y	189E	190G		191B	192A		193S	194H	195P

Answer the clues for words to be entered on the numbered dashes. Then transfer the letters on the dashes to the correspondingly numbered squares in the puzzle grid to spell a quotation reading left to right. Black squares separate words in the quotation. Work back and forth between grid and word list to complete the puzzle. When you are done, the initial letters of the words in the word list will spell the name of the author and the source of the quotation.

Clues

Word List

- A. Aimless pencil mark
132 192 175 17 40 98
- B. Profuse emission
63 127 191 57 100 2 176 38 165 80
- C. Arbitrary decree
41 160 184 13 137
- D. Fragment, mouthful, morsel
110 159 22 187 59 84
- E. Mythical monsters of the Straits of Messina (3 wds.)
164 42 94 102 33 181 113 70 16
189 143 81 52 157 87 131 150 1
- F. Structural makeup
167 180 46 9 144 75 125
- G. Closest relative (3 wds.)
170 161 54 101 126 140 190 8 79
- H. Duplicate
26 194 64 117 145 105
- I. Frightening, disturbing
69 4 97 153 32
- J. "_____ is Aladdin's lamp" (Byron, *Don Juan*; 2 wds.)
122 141 76 90 139 27 11 39 155 62
- K. College town in Butler County, Pa. (2 wds.)
49 182 60 3 163 115 89 30 128
109 14 77

- L. Anything worthless
129 173 21 50 86
- M. A leading export of Spain and Italy (2 wds.)
72 120 34 136 166 95 177 58
- N. Draw up; fill in; manage (2 wds.)
124 66 43 174 83 12 112
- O. Cream
134 106 88 158 37
- P. Rubbery substance of silicone and methyl alcohol (brand name; 2 wds.)
20 133 82 156 107 67 195 7 172 44
- Q. Members of the IWW
116 51 31 73 186 10 162 147
- R. Offspring
78 6 151 24 111
- S. Smart, stylish
99 23 45 183 193
- T. Yellowish, pear-shaped fruit
178 96 130 36 118
- U. Large marine snail with a spiral shell
142 65 35 152 104
- V. Boniface
91 25 114 168 53 19 68 149 5
- W. Early sound motion pictures
71 28 47 154 179 135 93
- X. Ruffian, rowdy
148 85 123 48 103 171 55 29
- Y. Relevant, pertinent
56 15 108 74 138 169 188 119
- Z. French engineer who built the iron framework for the Statue of Liberty
146 18 121 61 92 185



9 A Hairy Problem, Hardcase?

Three-Minute Detective

ROBERT L. LIDDIL

"Four bank robberies in two weeks is too much!" Inspector Hardcase informed the Friday morning rollcall. "Every man, get on the street and ask questions. Talk to snitches, hotel clerks, shopkeepers, anybody who might have a lead on the four 'possibles.' They're all State Prison parolees, so let's give them a class reunion. Today!"

Hardcase stalked away as Jephro Homer began reading the day's orders. The slam of the office door gave warning that the suspects had better be found.

Hardcase glared at the crime reports spread on his desk. The *modus operandi* was identical in each case, but suspects' descriptions were so varied it seemed four suspects were involved.

Report #1

11:03 a.m., Tues., Feb. 16. Subject (witnesses' description: male Caucasian, 6'2"-6'3", 250-265 pounds, 30-35 yrs., black hair, full beard and mustache) entered Amesbury Branch of Central National Bank, handing a note to the third teller from the left. He carried a CNB money sack in his gloved left hand and kept his right in his pocket. The note, consisting of words clipped from *The Times* pasted to a notebook page, read: "Fill the bag with twenty and fifty dollar bills. Thank you."

Teller Delilah Jones triggered silent alarm as she complied. She reported subject seemed nervous and kept stroking his beard.

Subject took \$4,850 and walked out the front door, crossed the street, and drove away in a red sedan.

Investigating officer's note: Car found at 8:45 p.m., same date, corner of Fourth and Commercial; reported stolen previous day from Elbert Wagner, 4421 W. 45th St.

Report #2

10:59 a.m., Thurs., Feb. 18. Subject (description: male Caucasian, 6'1"-6'3", 180-195 pounds, 30s, black hair, mustache and goatee) entered CNB Chambers St. Branch, handed cashier Maggie Corday (sitting in 3rd teller cage) a note demanding all twenties and fifties. Subject displayed no weapon but kept

right hand in pocket. Handed Corday CNB bag, then kept hand over mouth until bag filled.

Loot taken from "bait drawer" amounted to \$2,870—marked bills.

Subject fled in green compact parked across street, after struggle with guard Sven Todd. Todd reported subject's beard real—didn't pull off during struggle.

Car found Feb. 19 at Commercial and Second, stolen from Wanda Braden, 6801 Fulcrum. Owner not yet contacted.

Report #3

11:05 a.m., Tues., Feb. 23. Subject (male Caucasian, early 30s, about 6'0", 170 pounds, brown hair, no beard or mustache) entered Central National Bank—38th St. Branch, approached Stephanie Haltom at third teller's window with note and CNB bag. Note read: "Put all twenties and fifties in bag and everything stays cool. Thank you."

Subject escaped in tan sports car with over \$6,000. Car not positively identified but similar to one found on Commercial St. below 1st Ave. at 7:00 p.m.

* * * *

Hardcase tried to ignore the fourth report but its day-old details burned in his mind. Witnesses at CNB's main office reported a short, chubby, clean-shaven, brown-haired white male entered about noon and robbed the second teller's window of more than \$3,800, after presenting a note similar to the others and a CNB bag. The teller put the note in the bag with the loot, so no comparison was possible. He then escaped in a blue pickup truck, not yet found.

Hardcase looked up when Homer knocked at the door and waved the crime lab report. "Just like you thought, chief. The three notes were on pages from the same notebook and cut with the same scissors."

"And what's the other paper?" Hardcase asked.

"An update on the four possibles. Occam and Williams are already in. Wilkin-

son is working, according to his landlady, and Sergeant Thorpe went to pick him up."

"What about Gillette?"

"He's still loose, but not for long."

At 1:15 Phillip Gillette was brought in from a transient hotel at 348 Commercial, complaining loudly of harassment because he'd been released just that morning after 24 hours in the city drunk tank. Hardcase began calling witnesses for a lineup.

At 3:00 Hardcase snapped on the ID-stage lights, and Homer prodded the four suspects onto the stage. "Look closely at each one and see if you recognize him," Hardcase instructed.

Homer slipped into the seat beside him. "Any luck?"

"Give them time," Hardcase answered, then picked up a microphone. "Number One, step forward, state your name, then turn right and left."

Bart Wilkinson stepped forward and blinked myopically at the bright lights. After complying, he stepped back, and Hardcase scanned the witnesses' faces. None registered recognition.

He was followed in turn by William Occam, Mannie Williams, and Phillip Gillette, and again the witnesses were expressionless. Hardcase asked impatiently, "Don't any of you recognize any of them?"

"Number Four looks something like him," Todd answered, "but he's shorter and unbearded."

Maggie Corday, answered, "Number One is the right height and build, but I'm not sure. I don't recognize the others."

The other witnesses remained silent.

"Take them back to holding," Hardcase ordered. He turned to Homer. "Were any of them wearing false beards or mustaches?"

"No way, chief. I eyeballed 'em close."

"In that case, I think we know all but one piece of the puzzle. Let's go read our suspect his rights."

Whom did Hardcase arrest?

Answer, page 14



Bart Wilkinson

William Occam

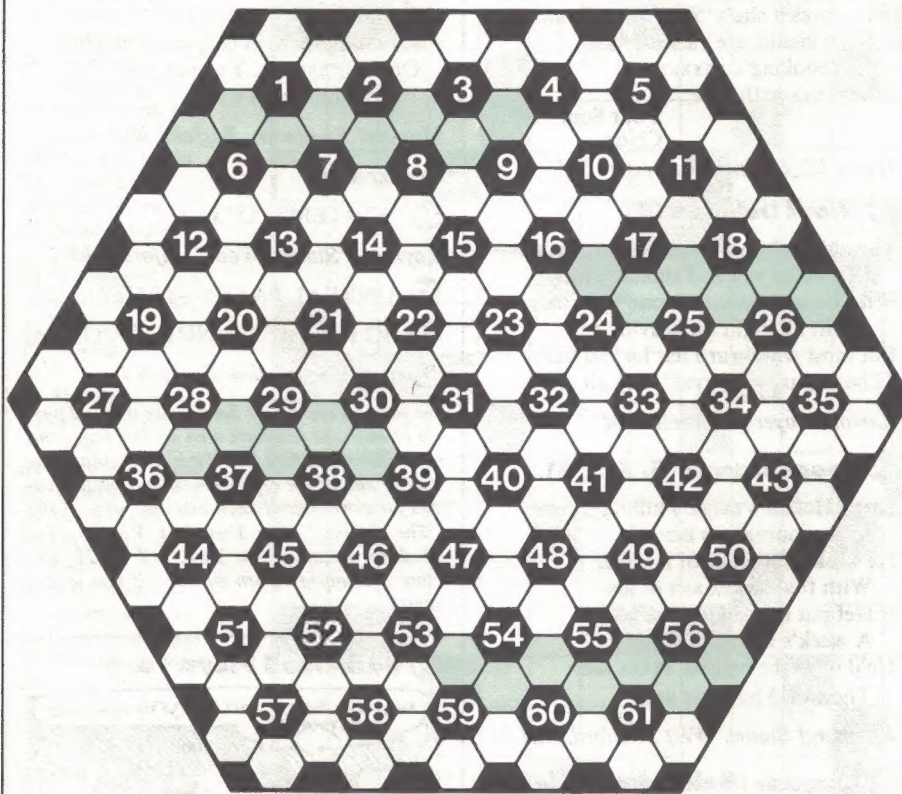
Mannie Williams

Phillip Gillette

10 Honeycomb

MIKE SHENK

The honeycomb below, when finished, will be filled with 61 six-letter words. Each word, answering one of the clues below the grid, is to be entered in the six hexagonal cells surrounding the corresponding number. The word may start in any of the six cells, and may read either clockwise or counterclockwise, but always in sequence. When the honeycomb is filled, the four shaded sets of cells will spell related terms.



Clues

- | | | |
|---------------------------------------|-----------------------------------|------------------------------------|
| 1 Trick-taking card game | 21 Tan spots? | 42 Dwell |
| 2 Desolate | 22 Prejudiced | 43 Traveling bag |
| 3 Navy construction worker | 23 Lasted | 44 Fight sites |
| 4 Warning lights | 24 Like a clarinet | 45 Angle of about 57° in geometry |
| 5 Zigzagging ski course | 25 Saws wood, in the comics | 46 Convention platforms |
| 6 Second story? | 26 Smoke alarm part | 47 Calm |
| 7 She loved Lancelot | 27 Go to bed | 48 Certain impressionist paintings |
| 8 Divided city | 28 Diamond shapes | 49 Readies for another battle |
| 9 Profession | 29 Actress Rita | 50 Spirited party? |
| 10 Basement | 30 Cheap whiskey | 51 Bat abode |
| 11 Practice exercises, for a dentist? | 31 Intruded rudely (with "in") | 52 Nureyev or Nijinsky |
| 12 Harsh | 32 Thanksgiving Day event | 53 Alaska was his "folly" |
| 13 Whips | 33 Oozed | 54 Ivanhoe's bride |
| 14 Attack | 34 Cubes, spheres, cones, etc. | 55 Felt-tip pen |
| 15 Tire type | 35 Trying experience | 56 Trap setter |
| 16 The '80s, for example | 36 Go over for the umpteenth time | 57 Newspaperman Greeley |
| 17 Irritated | 37 Yamahas' competition | 58 Sagittarius |
| 18 Leading French impressionist | 38 Actor Poitier | 59 Scaredy-cat |
| 19 Acrid | 39 Old Faithful, for one | 60 Pop open the champagne |
| 20 Mean fellow, in the Southwest | 40 Pizzeria tool | 61 Chide |
| | 41 Candles | |

11 Sports Equipment: 8, 4



12 Historical King: 9



13 TV Show: 7, 8



14 Roman God: 6





The Sphinx Page



Each puzzle in verse below contains two or more missing words to be guessed, in such forms as transposals (e.g., MEDICAL/DECIMAL/CLAIMED), charades (WOO + DEN = WOODEN), spoonergrams (HEARTY PATS/PARTY HATS), letter changes (AVENGE/AVENUE), word deletions (SHADOW - HAD = SOW), word interlocks (DITTO + CAR = DICTATOR), beheadments (STRAIN/TRAIN/RAIN), and heteronyms (REFUSE, with two pronunciations, meaning "trash" and "deny"). These words are represented by x's, y's, and z's—one for each letter in an omitted word. When the keywords have been correctly guessed, each verse will read with proper rhyme and meter, and will express an interesting thought, situation, or story.

An anagram is an apposite rearrangement of the letters in a word, name, or familiar phrase. For example, I'M A PENCIL DOT is an anagram of DECIMAL POINT.

Numbers in parentheses indicate lengths of answers. In anagrams, asterisks indicate capitalized words.

15 Transposal (7)

His fortune was xxxxxxxx to the sea
And xxxxxxxx with each ship's success
or wreck.

One day, xxxxxxxx to catastrophe,
He staked his fortune on a drier deck,
Which he xxxxxxxx and shuffled, till he
struck
The xxxxxxxx on the golden wheel of luck.

Arthur Swan, Wit Twisters, 1974

16 Charade (7)

Robbing banks is not an easy occupation,
And the xxxxyy couldn't take it any
more.

He gave up his wicked ways,
And so now he spends his days
yy a sunny little xxxxx by the shore.

Scott Marley, Santa Ana, CA

17 Word Interlock (11)

I spin the television xxxx again
And all I see is stupid, old, or crass:
Let's Make a Deal, cartoons, a
wrestling bout . . .

It's off into a summer evening then;
I'll lay zz down at length upon the
yyyyy
And work a xxxxyyyzzzy puzzle
out.

Philip M. Cohen, Aliquippa, PA

18 Letter Change (9)

Dear Folks,
Peg's a wonderful bride!
Who cares if she's "fair, fat, and wide"?
Such insults are vicious;
Her cooking's xxxxxxxxx!
xxxxxyxxxx with love,

Your Son,
Clyde

Harry W. Hazard, Rochester, NY

19 Word Deletion (7)

The old salt's tale would curl your hair—
Of stormy xxx and sinking craft,
With he and mate, just one yyyy pair,
Adrift all night on heaving raft.
But most who heard felt he had lied;
"That's pure xxyyyx!" they all cried.

Carroll Mayers, Roswell, NM

20 Spoonergram (5, 3; 5, 3)

Hugh Hefner's made a killing
In the journalism biz;
He's raked in scads of moolah
With that xxxxx xxx of his.
If Hef put in a single sack
A week's worth of his green,
He'd have the biggest xxxxx xxx
The world has ever seen.

Raymond Stuart, West Medford, MA

21 Charade/Beheadment (6, 5)

'xxx sad, the tendency to yyy
On slightest provocation,
Though xxxxyy-thin the xxyyy be
Or false the allegation.

Mitzi Christiansen, Bakersfield, CA

22 Heteronym (6)

I'll xxxxxx my way through the crowd,
No matter how rude that may be,
Because I'm more hungry than proud:
That scrumptious xxxxxx calls to me!

Maureen Kennerk, Hicksville, OH

23 Transposal (7)

From quaint Xxxxxxx her stunning
sheath
Was xxxxxxxx at knee and nape,
With firm xxxxxxxx underneath,
And xxxxxxxx to hold her shape.

Ross Hamilton, Scottsdale, AZ

24 Transposal (8)

The xxxxxxxx I call my son
Can xxxxxxxxx an awful clamor.
Whenever he is having fun,
It sounds like some electric hammer!

Alan Frank, Somerville, MA

25 Letter Change (6)

There's a certain xxxxxx in the situation
Of the idle rich; how boring they must
find it
Just to bask there in perpetual vacation
On their xxxxyx. You say you
wouldn't mind it?

Marjorie Friedman, Buffalo, NY

Anagrams

26 WINTER'S "O" (4 4)

Raymond Stuart, West Medford, MA

27 UNREAL PATHS—TRUE? (3 12)

28 SO PAY ME OR NOT, SIR (1 10 4)

David Shulman, New York, NY

Do you feel the Muse? Send us an original puzzle of any type you have seen on this page, and we'll thank you with \$20 if it is used. Anagrams will be judged for appositeness, and poetic puzzles for cleverness of keywords and verse. Write "The Sphinx," The Four-Star Puzzler, 515 Madison Avenue, New York, NY 10022. Enclose a stamped return envelope if you wish a reply.

29 Basketball Player: 6, 6



30 Singer: 3, 5

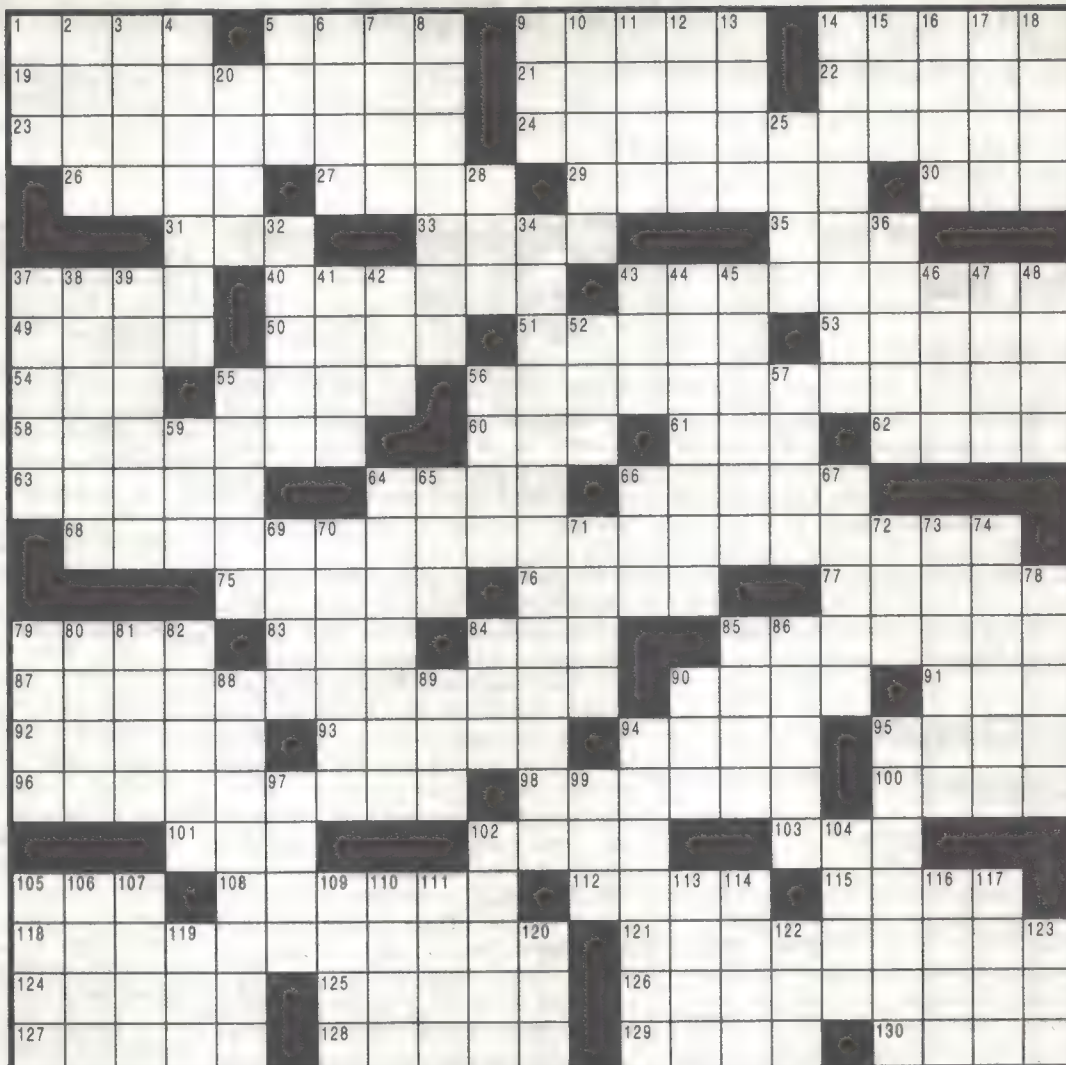


31 A Perfect "10"

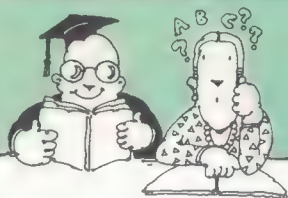
MERL REAGLE

ACROSS

- 1 Car on its last wheels
 5 Malayan boat
 9 Charley Weaver's hometown
 14 Growing businesses
 19 Possible sequel to an Allen film?
 21 Hogtiers' haven
 22 Concert hall
 23 Graph bases
 24 Mind-sharpening pastime
 26 Wormwood plant used in Oriental medicines
 27 Belgian river
 29 "... and foul ____": Shakespeare
 30 Draughts player's drink
 31 They have power
 33 Teller's call
 35 Bus. ph. line
 37 Old Japanese coin
 40 Rain dance accompaniment
 43 Spruces, perhaps
 49 Puritanical one
 50 Sacred bird of Egypt
 51 Green-card carrier
 53 Not as good
 54 Men's patriotic grp.
 55 Loads
 56 Moralists' bane
 58 Cheating, in Chartres
 60 1950s campaigner
 61 Syllable for Sills
 62 Sargasso shockers
 63 Put ____ in (begin work)
 64 Armstrong or Sistrunk
 66 Equals
 68 Milland chiller of 1963
 75 Prehistoric prefix
 76 Little Joe's big brother
 77 Digs of twigs
 79 Pen papa
 83 Agt.
 84 Meat-pie vegetable
 85 Turkish tobacco
 87 Signature of the unlearned
 90 Feathered mimic
 91 College climber
 92 Do more yardwork



- 93 Gridlock
 94 "Ring the bell and ____ prize"
 95 Bad weather, to the superstitious
 96 What a pharmacist fills
 98 Hugs and kisses
 100 Tic-tac-toe choice
 101 Outside: Prefix
 102 "Let ____"
 103 Nebraska town
 105 Mess hall order
 108 More conniving
 112 Triangular sails
 115 Taro root
 118 Woman's determination?
 121 Sci-fi gimmickry, in *Variety*
 124 Root or Yale
 125 Of an arm bone
 126 Controversial shuttle weapon
 127 Sombreroed sir
 128 Café cup
 129 Actress Moran
 130 Author Hunter
 32 Booster of a sort
 34 Hunter's clue ...
 36 ... and where it may lead
 37 Vision-related suffix
 38 Rival's product
 39 Funhouse device
 41 Mellow-sounding instrument
 42 With, to Wilhelm
 43 Out door, in shorthand
 44 They're waiting at the station
 45 Netter Jaeger
 46 War of 1812 battle site
 47 Düsseldorf donkey
 48 Psych. appt.
 52 New Guinea city
 55 ____ in the right direction
 56 Baker's dozen
 57 Actress Steenburgen
 59 Durham coll.
 64 Poker hand not apt to win
 65 Wild card, maybe
 66 Grocery stores for GIs
 67 "I ____ letter to my love ..."
 69 Paddock parent
 70 APBs
 71 The Piltdown Man, for one
 72 Approval
 73 Ulu wielder
 74 Old Dutch coin
 78 Refuse
 79 Shuttlecock
 80 Bread topper
 81 Poor Richard's bk.
 82 Uprising, in Chaucer's day
 84 Un ____ (a little): Fr.
 85 Bobcat
 86 Have ____ to grind
 88 Versatile board
 89 Cowboy's name ...
 90 ... and another
 94 "Alas!"
 95 Catalyst enzyme
 97 Cubicle
 99 Pron. case
 102 My Friend and La Douce
 104 Niuhau neckwear
 105 Former ring bearers
 106 Philippine timber tree
 107 Watery
 109 Cancel
 110 Majorca, e.g.
 111 Boulder-to-sand time span
 113 Notation for a chess capture
 114 Halfway
 116 CCLXXVII doubled
 117 Man ____ *Mancha*
 119 Pi follower
 120 Word with long or now
 122 Ohio city: Abbr.
 123 Strange prefix



The Logic Page



Answers, page 14

32 Three on the Isle

PLUTO GAINOR

Ms. Bartlett met two other girls while all three were visiting St. Kitts. Ms. Webster was taller than the girl from Montserrat. Barbara was older than Ms. Roget. The girl from Nevis was taller than Cheryl. Helen was shorter than the girl from Montserrat. The girl from Antigua was older than Barbara.

Can you determine the full names of all three girls, as well as their homes and relative heights and ages?

33 Closely Related

PAUL R. McCLENON

The executor of an estate has a problem regarding six married couples, in which each member is a spouse, sibling, or sibling-in-law to each of the others. No pair of siblings is married to a pair of siblings. The bequest is to be made within this group to "the sisterless woman with the brotherless husband." If there is more than one such woman, the two (or more) are to share equally; if there is none, the full amount will be divided among the 12 parties. The executor has found that none of these people has a sibling outside the twelvesome. Here are the other facts the executor has ascertained:

1. Edna is Fred's sister.
2. Carol is Dot's sister.
3. Beth's sister's husband is Al's sister's husband's brother.
4. Bill's brother's wife is Ann's sister.
5. Cliff's brother's wife is Al's sister.
6. Carol's brother's wife is Bill's sister.
7. Fran's husband's brother's wife is Dave's sister.
8. Carol's brother's wife's brother is Earl's sister's husband.
9. Earl's brother's wife is Carol's husband's sister.

Can you match all 12 people (Ann, Beth, Carol, Dot, Edna, Fran, Al, Bill, Cliff, Dave, Earl, and Fred) to their spouses and siblings, and tell how the inheritance is to be awarded?

34 Keeping Track

ROBERT L. LIDDIL

Horse racing has been called "the sport of kings," but if one had looked at the occupants of a box at the Camptown Raceway recently, one might have been inclined to think otherwise. Looking more like the characters out of a Damon Runyan story than a royal party on holiday, they provided an interesting and colorful study in contrasts.

The spectators' first names were Archibald, Dudley, Gertrude, Jocko, Marguerite, Ophelia, Ruben, and Ursula. Last names were Chamness, Freischutz, Icenogle, Longstreet, Perlmutter, Sidenbender, Van Cleave, and Zwieback. They dressed variously in "Ascot black-and-white," red bow tie and sleeve garters, cowboy outfit, green-and-white checkered suit, hot pants and tank top, mini-skirt and cashmere sweater, treader pants and Gucci blouse, and baggy tweed suit. The horses in the feature race were named Bungler's Dash, Fancy Pants, Lady's Slipper, Mudder Never Knew, No Tation, Quick Step, Wholewheat Bred, and Wise Gertrude. Their jockeys were named Baker, Duvall, Escobedo, Longstreet, Lovins, McHale, Schwartz, and Smith. The jockeys' silks were colored black-and-white, black-and-pink, blue-and-orange, green-and-gold, green-and-white, purple-and-blue, red, and yellow.

From the clues below, determine each spectator's full name and costume, the horse each bet on, its jockey's name, the colors he wore, each horse's position in the starting gate, and which horses finished in the win, place, and show (first, second, and third) positions.

Clues

1. Schwartz was up on Bungler's Dash; Mr. Freischutz backed the jockey wearing black-and-pink; Archibald had the place horse, which paid \$4.80 and \$3.10; Jocko wore a baggy tweed suit; the wearer of the hot pants bet on McHale's mount; Ms. Sidenbender bet on Mudder Never Knew; the woman in the cowboy outfit backed the horse that started in position eight; the horse coming out of the fourth chute carried black-and-white. [Note: Each clause refers to a different bettor-horse-jockey combination.]

2. The man who bet on Escobedo's ride was not dressed in a green-and-white checkered suit.

3. Neither Ophelia nor the woman who bet on the horse in the sixth starting position supported Duvall's mount; No Tation carried the red colors; the man in "Ascot black-and-white" didn't back Wholewheat Bred. [Note: This clue mentions three different horses.]

4. Ursula bet on Quick Step; Mr. Perlmutter's horse started in the second post position; the wearer of the treader pants backed jockey Smith; Fancy Pants' jockey wore yellow silks; the show horse started in the first position; Ms. Chamness bet on the horse carrying blue-and-orange; Mr. Icenogle's choice started from the seventh post position; the guy in bow tie and sleeve garters bet on Lovins' mount. [Note: Each clause refers to a different combination.]

5. Marguerite bet on the horse carrying purple-and-blue.

6. Mr. Longstreet lost \$3.10 on his \$6.00 combination ticket on his brother's ride; Ms. Van Cleave did not bet on Quick Step; Ruben didn't wear the bow tie and sleeve garters. [Note: Three different people are mentioned here.]

7. McHale brought Wise Gertrude home the winner out of the third post position for a \$45.20 on-the-nose payoff, barely nosing out the horse carrying green-and-gold which had started farther out in the gate.

8. Gertrude's last name is not Van Cleave.

35 Movie Character: 9, 8



36 Syllasteps

WILL SHORTZ

The two diagonal flights of stairsteps will spell related words when you are finished. To discover them, use the word fragments in the Syllabary to form eight four-syllable words that answer the clues given. Cross off the syllables as you use them, because each is used once and only once. Enter the answers across the grid, one syllable per space—then see what the shaded spaces spell reading from upper left to lower right.

Syllabary

AC AL AR ATE BI CAM CIL COL
DE ER ER FLAGED FRIG GY IS
LA LEG LO MAIN O OL OS OU
PUNC QUI RE TION TLE TO
TURE U UN

1				
2				
3				
4				
5				
6				
7				
8				

Clues

1. One of the sciences
2. Not hidden
3. Keep cool
4. Slangy
5. Sleight of hand
6. Greek philosopher
7. Instability
8. Form of medicine

Answer, page 14

37 Crossout

HENRY HOOK

Cross out 12 of the 36 numbers below so that each row and each column is left with exactly four numbers that total 10.

2	1	2	2	5	4
5	1	1	6	2	3
3	3	5	1	3	1
1	7	6	1	1	2
2	5	1	4	1	3
4	1	2	4	2	3

38 Double Cross

Variety Cryptic Crossword

EMILY COX and HENRY RATHVON

Pairs of clue answers in this puzzle must share accommodations in the grid. Every square is occupied by two letters; in squares where answers intersect, each letter belongs to one Across entry and one Down entry. The solver must determine which horizontal answers intersect with which vertical answers. The order of each pair of clues is arbitrary, as is their order of entry in the diagram.

Answers include four proper nouns; Across answer 2b is a variant spelling.

1	2	3	4	5	6
7					
8					
			9	10	11
12		13		14	
15					
	16				
17					

ACROSS

- 2a Flying carpets with varicolored stripes (7)
- 2b Farm animal sat around producing cream (7)
- 7a A virgin admitting to loving (7)
- 7b Conspicuous foreigner in street (7)
- 8a Cut the price of string? (8)
- 8b Confess about abysmal, regressive crime (8)
- 10a Poor Aesop's lost a collection of verse (4)
- 10b Several architects' houses having wings (4)
- 12a Body cast's beginning to harden on the outside (4)
- 12b Beginners in arithmetic learn sums once more (4)
- 15a Ms. Greer providing relevancy in speech (8)
- 15b Shot skeet all about a framework (8)
- 16a Exploding grenade gets nobleman (7)
- 16b Man who wrote Polanski movie is a versifier (7)
- 17a Mother's lying in outhouse, drunk (7)
- 17b God rejected swan song (7)

DOWN

- 1a Idiot playing the part of wrongdoing criminal (8)
- 1b Rescues fifty captured by wild men (8)
- 2a Little southern shopping center (5)
- 2b Scandinavians said to get break (5)
- 3a A general on the protected side (4)
- 3b Two states make treaty (4)
- 4a Drilled for gold buried in stratum (5)
- 4b Doctor cared for tree (5)
- 5a Gin run in spigot (4)
- 5b Plant a goose egg (4)
- 6a Bombing Tangiers makes you most irate (8)
- 6b Bridge supports made from forest around St. Louis, primarily (8)
- 9a Book is finally abridged (5)
- 9b Arrive on time with a reindeer (5)
- 11a Possessed (ouch!) by the Devil (5)
- 11b Lower a part of the infield (5)
- 13a Food in stomach (4)
- 13b Medicines right in the ocean (4)
- 14a Cover up skin (4)
- 14b Catches up with gun (4)

ANSWERS

This Issue

⑦ 1. Crossword tournament. 2. Wives. Buchanan was a lifelong bachelor; each of the other men married twice. 3. Geese, snakes, owls. 4. London, England. 5. Greece's, with 158 verses. Japan's has only four lines; Qatar's has no lyrics at all. 6. Shaving cream. 7. That's the only race Broker's Tip ever won. 8. A hockey or skating fan. Named for its inventor, the Zamboni machine shaves and washes the surface of the rink. 9. *It Can't Happen Here*. 10. Twenty. 11. Yes. 12. There's not another tree within a 30-mile radius. 13. Umbrellas. 14. Ten cents. 15. Bowling. 16. Backwards. 17. France. 18. The revolving door.

⑨ After reading the suspect his rights, Hardcase's first question was, "Why did you miss yesterday's heist?"

Phillip Gillette answered, "I was unavoidably detained, and besides, some amateur swiped the scam! But how did you know it was me?"

Hardcase smiled and explained. "In each case you changed something about your appearance. First you wore a full beard, padding, and lifts. Next you shaved part of your beard and dropped the padding but kept your elevators. Then you shaved your beard and mustache and left off your height-makers."

"But how did you know it wasn't one of the others? They matched some of the descriptions as well."

"Simple. You can shave off hair in seconds, but it takes much more than a week-and-a-half to grow a beard."

Indeed, Gillette committed the first three crimes in various disguises, while the fourth was perpetrated by an opportunistic "copycat," still at large.

⑫ Helen Bartlett, Antigua, shortest, oldest; Cheryl Roget, Montserrat, second tallest, youngest; Barbara Webster, Nevis, tallest, second oldest.

⑬ Siblings: Ann, Beth, and Dave; Al, Carol, and Dot; Cliff, Earl, and Fran; Bill, Edna, and Fred.

Spouses: Ann and Cliff; Beth and Fred; Carol and Dave; Dot and Earl; Edna and Al; Fran and Bill.

The sisterless women are Edna and Fran. Since Fran's husband (Bill) has a brother (Fred), she is out of the inheritance. Edna's husband (Al) has no brother, though, so Edna gets the entire estate.

⑭ Gertrude Chamness, hot pants and tank top, Wise Gertrude, McHale, blue-and-orange, third position, winner; Dudley Freischutz, bow tie and sleeve garters, Wholewheat Bred, Lovins, black-and-pink, fifth position, also-ran; Archibald Icenogle, "Ascot black-and-white," Lady's Slipper, Escobedo, green-and-gold, seventh position, place; Jocko Longstreet, baggy tweed suit, No Tation, Longstreet, red, first position, show; Ruben Perlmutter, green-and-white checkered suit, Bungler's Dash, Schwartz, green-and-white, second position, also-ran; Marguerite Sidenbender, treading pants and Gucci blouse, Mudder Never Knew, Smith, purple-and-blue,

sixth position, also-ran; Ophelia Van Cleave, cowboy outfit, Fancy Pants, Baker, yellow, eighth position, also-ran; Ursula Zwieback, miniskirt and cashmere sweater, Quick Step, Duvall, black-and-white, fourth position, also-ran.

Full explanations of answers for this issue's logic puzzles are available upon request. Send a self-stamped envelope to *The Four-Star Puzzler*, 515 Madison Avenue, New York, NY 10022. State the title(s) of the puzzle(s) for which you want explanations.

36	BI	OL	O	GY
	UN	CAM	OU	FLAGED
	RE	FRIG	ER	ATE
	COL	LO	QUI	AL
	LEG	ER	DE	MAIN
	AR	IS	TO	TLE
	OS	CIL	LA	TION
	AC	U	PUNC	TURE

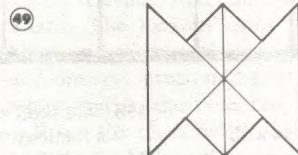
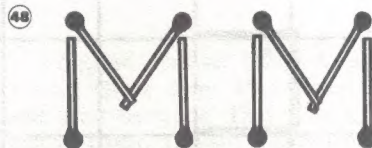
③⑦ The following digits should be crossed out: Column 1—3 and 4. Column 2—3 and 5. Column 3—6 and the 1 beneath it. Column 4—2 and 6. Column 5—Both 2s. Column 6—4 and 2.

④④ The word is GET.

④⑤ "B" is taller. Consider the student in the same column as "A" and same row as "B"—this student must be taller than "A," who was shortest in the column. But "B" is in turn taller than this student. So "B" is taller than "A."

④⑥ $98 + 7 - 6 + 543 - 21 = 621$.

④⑦ The saying is "Practice makes perfect."



⑤⑨ Sulfur. In each case, the Roman numeral for the subtracted number is deleted from the word for the first number; i.e., FIVE — IV = FE, the chemical symbol for iron. Similarly, SIX — IX = S = sulfur.

⑤⑩ Eight billion, eighteen million, eighteen thousand, eight hundred eighty-five (8,018,018,885).

⑤⑫ Seven. Drawing just six could result in two of each color.

⑤⑬ The twelve letters are the initials of the months of the year.

⑤⑭ Inserting 11 N's yields "NINE MEN FANNED IN NINE INNINGS."

⑤⑮ Gaining time. The hands should be together every 65 5/11 minutes.

⑤⑯ Switch the 4 and 6 and switch the 3 and 9, to get: $129 + 654 = 783$.

Last Issue

3	BACK	POLAR	SRS
	IRON	EMILE	STEW
	GINA	NELLS	ROUE
	♥STRING	♥HSTONE	
	ETE	READ	HADIT
	DASHER	IOWA	AT♥
	ETA	ASNEW	TES
		GOOD♥EDLY	
	KIP	GUIDES	AMA
	INA	LLAN	ANTICS
	NACRE	SARA	SEA
	DRIEDUP	ROBESON	
	♥AND	SALEM	RAFE
	EGGS	SCENA	MY♥S
	DES	RENTS	ASST

4

6

DOS	UJJI	JJ	WEAR
OUT	POSER	BAMBI	
ICE	THE	DELUSION	
THAT	ONE	NONPLUS	
	LOW	APERY	ETE
WHINNY	AREAS		
HUNT	ALLY	NIGEL	
ANTI	WOMAN	GOYA	
THONG	AIN	NARY	
	EASTS	HAOLES	
ULF	MEHTA	LFT	
PAJAMAS	DIFFERS		
FROM	ANOTHER	NOU	
OGRES	MOORE	DOZ	
RODS	ELCID	SKY	

⑦ ACROSS: 1. VA-GUEST 5. CASTING (anag.) 9. DR(e)AM-A 10. EXA-MINERS (axe rev.) 11. OCCA-S(I)ONS (okay homophone) 12. SET-TO (hidden) 13. IN(DIANA)N 15. HOT-AIR (anag.—c) 18. CROWNS (homophone) 20. SIXTIETH (anag.) 23. A(DIE)U 24. MINNESOTA (anag.) 26. BI(RDCA)LLS (card anag.) 27. TYROS (anag.) 28. TUN(DR)AS 29. SCALPE-L (places anag.)

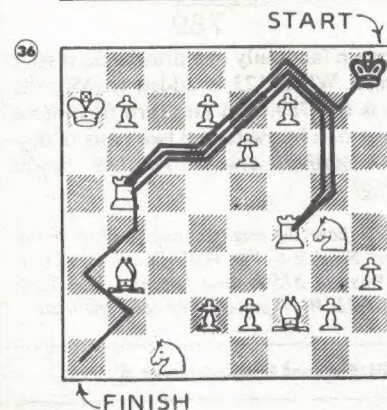
DOWN: 1. VIDEODISC (anag.) 2. GLANCED 3. E(X-AM)S 4. TEETOTAL (anag.) 5. CLAUSE (homophone) 6. SUIT-S TO A T 7. INERTIA (hidden) 8. GUSTO (anag.) 14. (d)AN(NOUN)CER 16. RE(HEARS)AL 17. P(IANIS)TS (Sinai rev.) 19. OMICRON (anag.) 21. EGO TRIP (anag.) 22. (g)AMBLES 23. ABBOT (homophone) 25. EXTRA (anag.)

⑩ Word List: A. Hedgehoggy B. Afterglow C. Leveret D. Lace-curtain Irish E. Effloresce F. Neat G. Swaggering H. Much too short I. Items J. Tough it out K. Hames L. "Good; night, Irene" M. Emboss N. Necessity O. Edda P. Ambassadorial Q. Lamb of God R. Office seeker S. Gamesmanship T. Yaqui

Quotation: Those who indulge in eager genealogical research defend themselves sometimes by describing their digging as a game, a quest, a form of sport. It is much the same,

they say, as a game of golf, or the working out of a Double-Crostic.—H. Allen Smith, *Genealogy*

- 15 Dali/laid/dial 16 Sup-port
17 Evaluate/evacuate 18 P-r-e-late
19 De-s-ign 20 Regal/lager
21 Teagarden/Great Dane
22 The Hunchback of Notre Dame
23 Napoleon Bonaparte 24 Saint Peter
25 The misanthrope 26 The garbage trucks



- 37 1. T(OR)RID (*dirt rev.*) 2. PAR(RO)T (*or rev.*) 3. IMP-ART 4. TRANCE (*anag.*) 5. CH(ARTS) 6. ST(R)EAM 7. SUN-DRY 8. C(ruel)Y-GNUS 9. STROBE (*anag.*) 10. ST-RIDE 11. MINERS (*homophone*) 12. ASTERS (*anag.*) 13. RABB(i)-LE 14. EL-BOWS 15. SH(R)INE 16. DI(V-I)NE 17. CRANES (2 mngs.) 18. SENIL-E (*lines rev.*) 19. SP-ICES 20. SECTOR (*anag.*) 21. POS-SUM 22. MUS(CL)E 23. MI-RR(O)R (*I'm rev.*) 24. ANTRIM (*anag.*) 25. BO(UNT)Y (*nut anag.*) 26. B(r)OUGHT 27. BARRED (*homophone*) 28. SCARAB (*hidden*) 29. POSTER (2 mngs.) 30. EASTER(n) 31. RE-PAST 32. REP-UTE (*per rev.*) 33. BOM-BER (*all rev.*) 34. REBUFF (2 mngs.) 35.

Cryptography

SALLY PORTER



Each of these messages has been put into a simple substitution letter code. The substitutions are constant throughout each cipher, but change from one cipher to the next. An asterisk indicates a proper name.

39 Of Course!

SHPWM YHGREBD: YBHW DAK VGW GXXAFC
EA SKD G YBARH WHY THE AX MARX VRKST
NKTE SHVGKTH DAK MHE G BARH PW AWH.

40 Lucky at Cards...

JMC AVA FRPXGVWB CRHYT TLQSFXX
GJVNWU UKRQ SLWWLKLN NR WKLDG? FLAC
WKRHDVXX BXDN GLCVYT, "YR AVWX!"

41 Coming Attractions

LYMKCJK KHFPVGH SDCGRK CXTG SDCGRK
QH VDVJHXTZQRGVH, STXZCGR LXVHHM
KVZCJCXJFDQX LQHHVXGK.

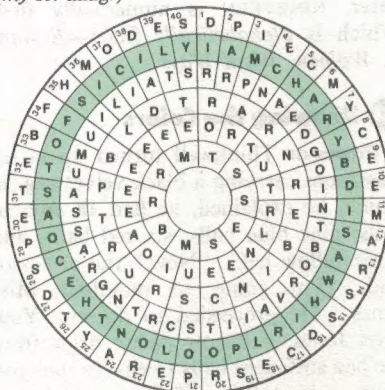
42 That's Show Biz!

RVTRVWXYZ WGHTRZJTWX RFKWMWNZ
JZXQWJC MRKJPWXT MB HTXUYQWDV GWFRU-
YH, WDQXGHTRKRDZWMCR JNXDJC XHRTJ.

43 Building Tension

*GLBFVCLYZ YCBPLFKBFNCK'U BNCHLBKJ
UBCVHHDVCT, XLZXKCRCKYJ VCZYSKZFVFLVZ
XLGK MYLZFKCU ZLXPFSYCKU.

RELISH (*anag.-y*) 36. MILLER (2 mngs.)
37. MEDICO (*anag.*) 38. DIADEM (*anag.*)
39. METTLE (*homophone*) 40. S-YSTEM
(*my set anag.*)



Second outermost ring reads: "I AM CHARYBDIS, A WHIRLPOOL ON THE COAST OF SICILY."

38 Lady Godiva was smart. What taxman would risk husbandly wrath by seeking her hidden assets?

39 If charity begins at home, how come so many householders have already given at the office?

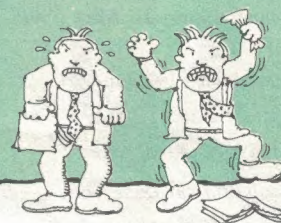
40 Colorful circus clown puts on unique makeup featuring shaggy indigo eyebrows, bulbous pink nose.

41 Dextrous mixologist mixes up superior sidecar with orange liqueur, brandy, lemon twist over shaved ice.

42 Fussy koala bears dine only on certain eucalyptus species, making them difficult zoo guests.



At Wit's End



Answers, page 14

44 Word For Word

What one common three-letter word will complete all six of these groups of letters to make well-known words?

GAD _____
FOR _____
BUD _____
TAR _____
MID _____
NUG _____

—Murray Rockowitz, *Word Games and Puzzles*

45 Tall Tale

Two hundred students are positioned in 10 rows, each containing 20 students. From each of the 20 columns thus formed, the shortest student is selected, and the tallest of these 20 (short) students is tagged "A." These students now return to their initial places. Next the tallest student in each row is selected, and from these 10 (tall) students, the shortest is tagged "B." Which of the two tagged students is the taller (assuming they are different people)?—Shklarsky, Chentzov, and Yaglom, *The USSR Olympiad Problem Book*

46 Sign Posting

Place two plus signs and two minus signs in the row of figures below so that the total given is correct:

$$987654321 = 621$$

—John Paul Adams, *We Dare You to Solve This! No. 2*

47 Quote Quest

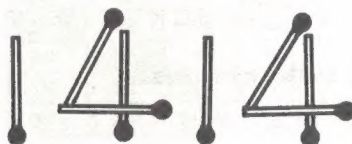
Starting with the correct letter in this diagram, move horizontally and vertically (but not diagonally) to complete a familiar saying.

C	T	E	M
A	I	C	A
R	P	E	K
E	P	S	T
R	F	E	C

—Charles Preston, *Puzzles & Puzzlers*

48 Match Wits

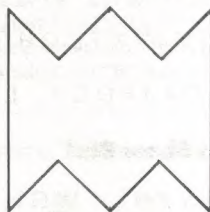
The eight matchsticks below are arranged to show the number 1414. Can you move two matchsticks to new positions to represent the number 2000?



—Novoveský, Křižalkovič, and Lečko, 777 *Mathematical Amusements and Puzzles*

49 Cutting Remarks

Using only three straight lines, can you divide the shape below into six triangles?



—Louis Magila, *Doraville, GA*

50 Elementary!

Given the equation:

$$5 - 4 = \text{IRON}$$

what chemical element could replace the question mark in this equation:

$$6 - 9 = ?$$

—Stan Kurzban, *Poughkeepsie, NY*

51 Alphanumericics

Of all the numbers that, when written as words, begin and end with the same letter, NINETEEN is numerically first. Which is alphabetically first?—Edward R. Wolpow, *Word Ways*

52 Drawing the Colors

Professor Thinkwell turned up in his classroom carrying a black velvet bag, in which, he explained, he had 18 colored balls: nine blue balls, six red balls, and three yellow balls. "Now," the professor said, "I'm going to blindfold Miss Jones." He proceeded to do so. "You, Miss Jones, will now please draw from the bag sufficient balls to ensure that you have at least three of the same color."

How many balls should Miss Jones have drawn?—Hubert Phillips, *Something to Think About*

53 Timely Question

What does this statement suggest?

"J.F. Mam? J.J. as on D!"

—Stephen Barr, *Puzzlequiz*

54 Letter Perfect

Insert the same letter 11 times in the following succession of letters to make a sentence:

I E M E F A E D I I E I I G S

—Arthur Hirschberg, *Can You Solve It?*

55 Helping Hands

The minute hand and the hour hand of a certain clock are together every 65 minutes. Is the clock gaining or losing time?—Gerald Kaufman, *It's About Time*

56 Digit Switch

Here is a very simple sum in addition:

$$\begin{array}{r} 123 \\ + 456 \\ \hline 789 \end{array}$$

It has, in fact, only one drawback: it isn't correct. When 123 is added to 456, the sum is not 789. Can you turn this into a correct sum by switching two pairs of digits?—Jonathan Always, *Puzzles? You're Joking!*

Do you have an original, unpublished brain-teaser? Send it to "At Wit's End," The Four-Star Puzzler, 515 Madison Avenue, New York, NY 10022. We'll pay \$20 for each one used.

57 Fictional Character: 5

